

WHAT IS CLAIMED IS:

1. A method of forming a disc pack, the method comprising:
  - (a) forming at least one alignment feature between an inner diameter and an outer diameter of each of a plurality of discs; and
  - (b) utilizing the at least one alignment feature of a first disc of the plurality of discs and the at least one alignment feature of a second disc of the plurality of discs to substantially vertically align servo patterns on the first disc with servo patterns on the second disc.
2. The method of claim 1 wherein the forming the at least one alignment feature step (a) comprises forming at least one laser mark on each of the plurality of discs.
3. The method of claim 1 wherein the forming the at least one alignment feature step (a) comprises removing at least one segment from each of the plurality of discs.
4. The method of claim 1 further comprising forming at least one imbalance reduction feature on each of the plurality of discs.
5. The method of claim 4 wherein forming the at least one imbalance reduction feature comprises removing at least one segment from each of the plurality of discs.
6. The method of claim 4 wherein the at least one imbalance reduction feature of the first disc of the plurality of discs is formed diametrically opposite the at least one alignment feature of the first disc of the plurality of discs and the at least one imbalance reduction feature of the second disc of the plurality of discs is

formed diametrically opposite the at least one alignment feature of the second disc of the plurality of discs.

7. The method of claim 1 wherein the servo patterns on the first disc and the servo patterns on the second disc are formed subsequent to carrying out the forming the at least one alignment feature step (a).

8. The method of claim 1 further comprising utilizing the at least one alignment feature of each of the plurality of discs to bias each disc of the plurality of discs against a spindle motor shaft.

9. The method of claim 8 wherein alternate discs of the plurality of discs on the spindle motor shaft are biased at 180-degree opposition.

10. The method of claim 1 wherein the utilizing step (b) further comprises utilizing the at least one alignment feature of the first disc of the plurality of discs and the at least one alignment feature of the second disc of the plurality of discs to vertically align a servo timing index on the first disc with a servo timing index on the second disc.

11. A disc pack comprising:  
a first disc; and  
a second disc;

wherein each of the first and second discs comprises at least one alignment feature between an inner diameter and an outer diameter of each of the first and second discs, and wherein the at least one alignment feature of the first disc and the at least one alignment feature of the second disc are configured to facilitate vertical alignment of servo patterns on the first disc with servo patterns on the second disc.

12. The apparatus of claim 11 wherein the at least one alignment feature between the inner diameter and the outer diameter of each of the first and second discs comprises at least one laser mark on each of the first and second discs.
13. The apparatus of claim 11 wherein the at least one alignment feature between the inner diameter and the outer diameter of each of the first and second discs comprises at least one laser mark on each disc surface of the first and second discs.
14. The apparatus of claim 11 wherein the at least one alignment feature between the inner diameter and the outer diameter of each of the first and second discs is defined by a removal of at least one segment from each of the first and second discs.
15. The apparatus of claim 11 wherein each of the first and second discs comprises at least one imbalance reduction feature.
16. The apparatus of claim 15 wherein the at least one imbalance reduction feature in each of the first and second discs is defined by a removal of at least one segment from each of the first and second discs.
17. The apparatus of claim 15 wherein the at least one alignment feature of the first disc is diametrically opposite the at least one imbalance reduction feature of the first disc and the at least one alignment feature of the second disc is diametrically opposite the at least one imbalance reduction feature of the second disc.

18. The apparatus of claim 11 wherein the first and second discs are biased at 180-degree opposition on a spindle motor shaft.
19. The apparatus of claim 11 wherein the at least one alignment feature of the first disc and the at least one alignment feature of the second disc are configured to facilitate vertical alignment of a servo timing index on the first disc with a servo timing index on the second disc.
20. A disc pack comprising:  
a plurality of discs; and  
means for aligning servo patterns on a first disc of the plurality of discs  
with servo patterns of a second disc of the plurality of discs.